

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/021578 A2

- (51) International Patent Classification⁷: **C07K**
- (21) International Application Number:
PCT/US2004/027655
- (22) International Filing Date: 25 August 2004 (25.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
Not furnished 26 August 2003 (26.08.2003) US
- (71) Applicant (for all designated States except US): **AMPRO-
TEIN CORPORATION** [—/US]; 355 N Lantana Street
#220, Camarillo, CA 93010 (US).

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

- (72) Inventor; and
(75) Inventor/Applicant (for US only): **HUI, Mizhou** [—/US];
926 Silver Cloud Street, Thousand Oaks, CA 91360 (US).
- (74) Agent: **AMPROTEIN CORPORATION**; 355 N Lantana
Street #220, Camarillo, CA 93010 (US).

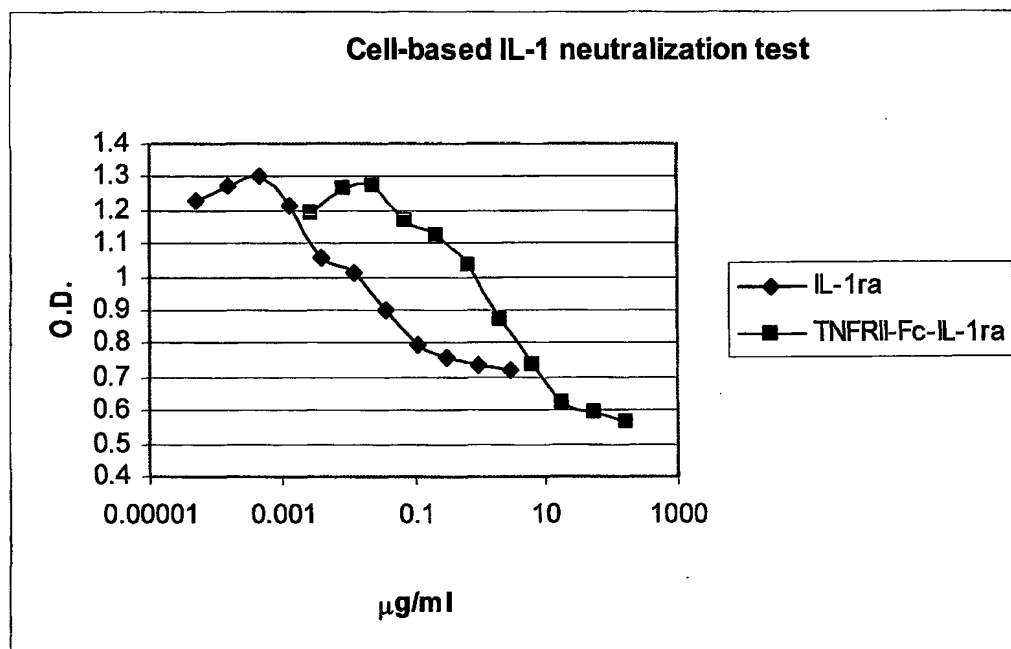
Published:

— without international search report and to be republished
upon receipt of that report

- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

- (54) Title: A NOVEL CHIMERIC POLYPEPTIDE AND USE THEREOF



(57) Abstract: A chimeric polypeptide comprising a TNF neutralizer domain, an IL-I receptor antagonist domain, and a dimeriza-
tion domain, wherein the three domains are operably linked to each other. Within the scope of this invention are (i) nucleic acids
encoding the polypeptide; (ii) expression vectors and host cells containing the nucleic acids; (iii) related pharmaceutical composi-
tions; and (iii) related preparation and treatment methods.